



iPod Nano 1st Generation Battery Replacement

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INTRODUCTION

Battery not lasting long? Swap it out (requires soldering).



TOOLS:

- [iFixit Opening Tools](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Safety Pin](#) (1)
- [Solder](#) (1)
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [Soldering Station](#) (1)



PARTS:

- [iPod Nano Gen 1 Replacement Battery](#) (1)

Part Only

- [iPod Nano Gen 1 Replacement Battery](#) (1)

Fix Kit

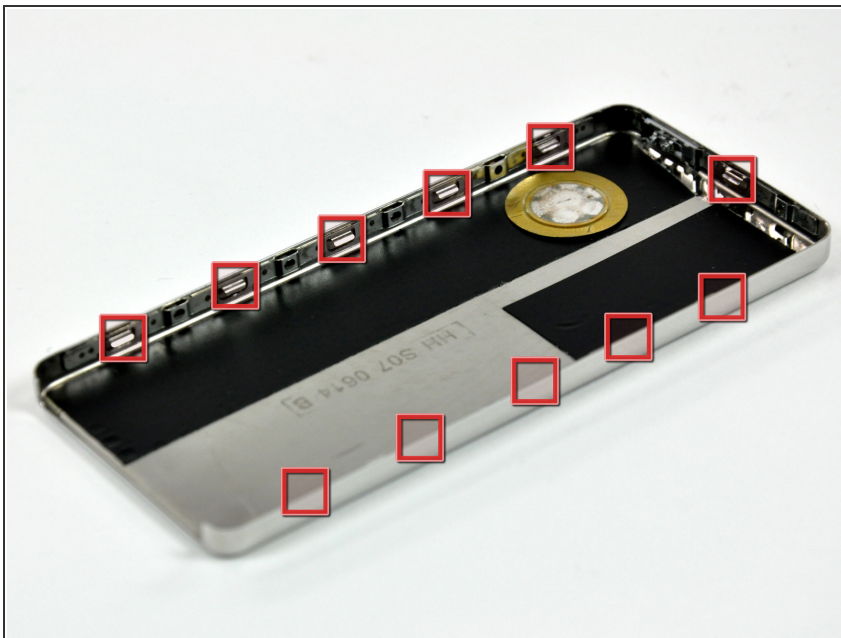
This includes the battery, driver, spudger, and opening tools.

Step 1 — Rear Panel



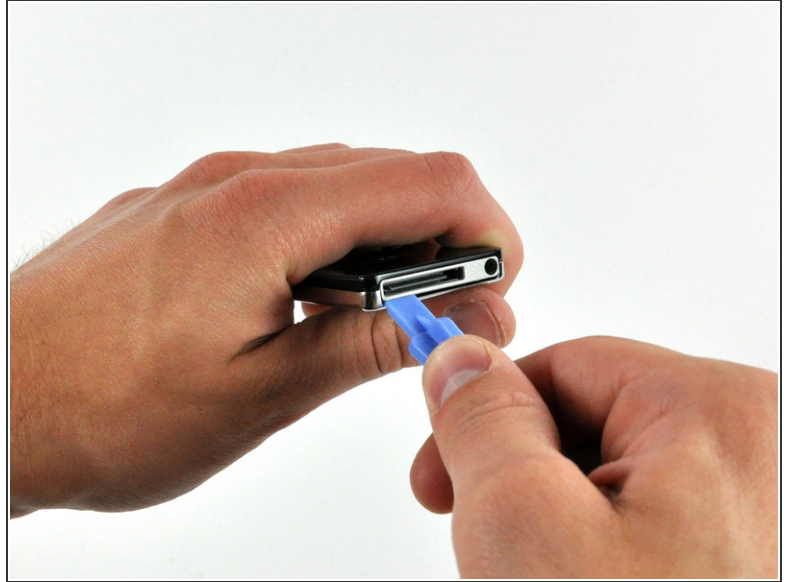
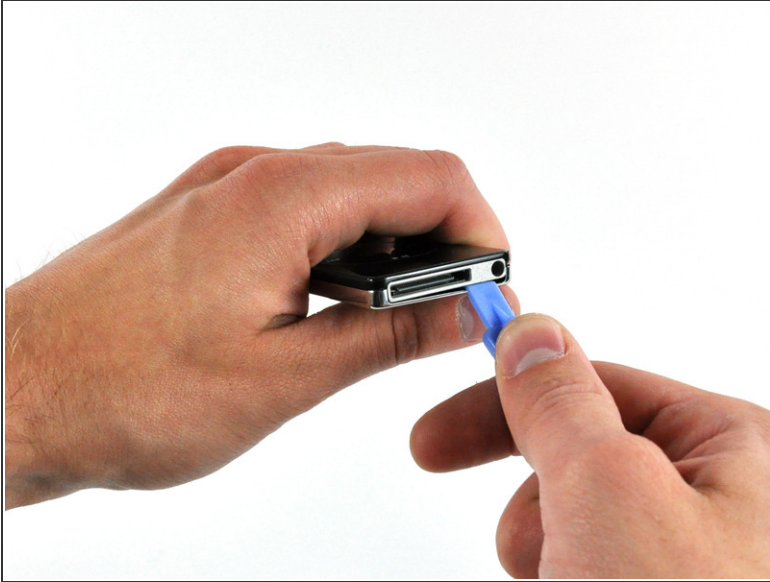
- i** Before opening your iPod, ensure that the hold switch is in the locked position.

Step 2



- i** The rear panel is secured to the front case by eleven clips permanently attached to the rear panel. These clips lock onto small tabs machined into the front case.
- i** To free the tabs, they must be pushed down and away from the iPod's case. Note the location of all tabs on the rear panel. When using an iPod opening tool to free the rear panel, be sure to work the tool at the location of these clips.

Step 3



- i** Opening the iPod can be challenging. Don't get discouraged if it takes you a few tries before the iPod is opened.
- Insert the large iPod opening tool into the seam between the front case and rear panel of the iPod, below the dock connector. Run the tool back and forth to create an opening. The tool's edge should point toward the rear panel to prevent any accidental scratching of the aluminum front case.

Step 4



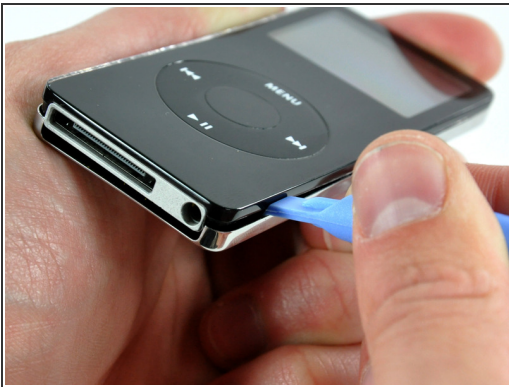
- Insert a small iPod opening tool into the seam on the Hold button side of the iPod, with the edge of the tool pointing toward the rear panel.

Step 5



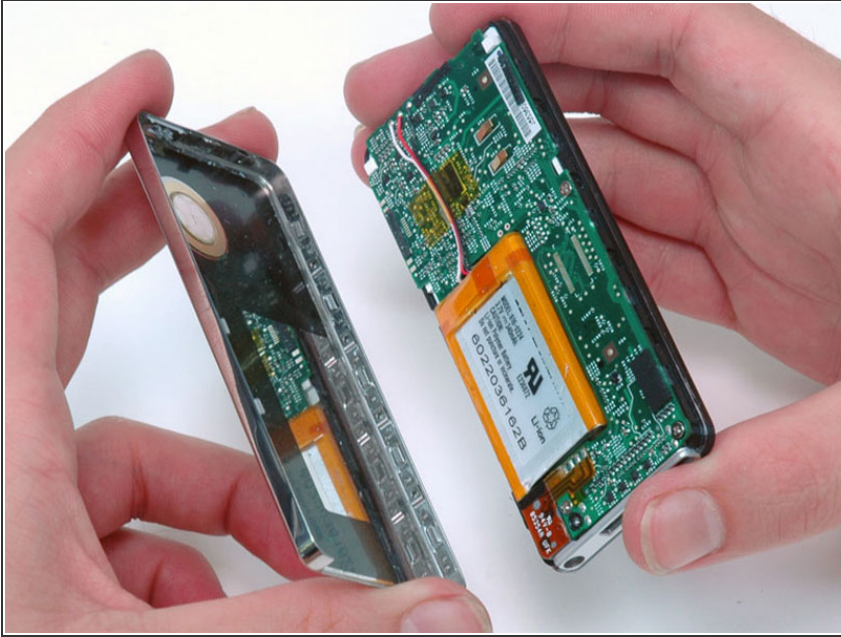
- ❗ The large iPod opening tool is no longer needed to gain access to the left side of the iPod.
- Gently enlarge the existing gap by pressing/wiggling the small iPod opening tool into the gap near each of the two tabs attached to the rear case, pushing the clips toward the center of the iPod until both have been freed.

Step 6



- Repeat the same procedure listed in the previous step to free the five clips along the headphone jack side of the iPod.

Step 7



- After ensuring all tabs are free, separate the two halves of the iPod.
- The rear panel is now free from the iPod.

Step 8 — Battery & Logic Board



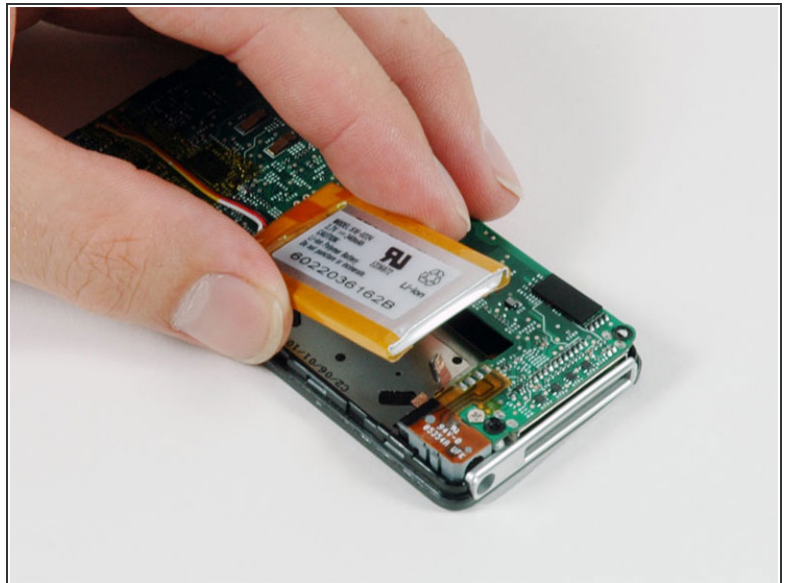
- ⓘ Remove any kapton tape over the screws, if necessary.
- Remove the following 3 screws:
 - Two 3 mm Phillips screws near the dock connector.
 - One 4 mm Phillips screw along the edge of the logic board.

Step 9



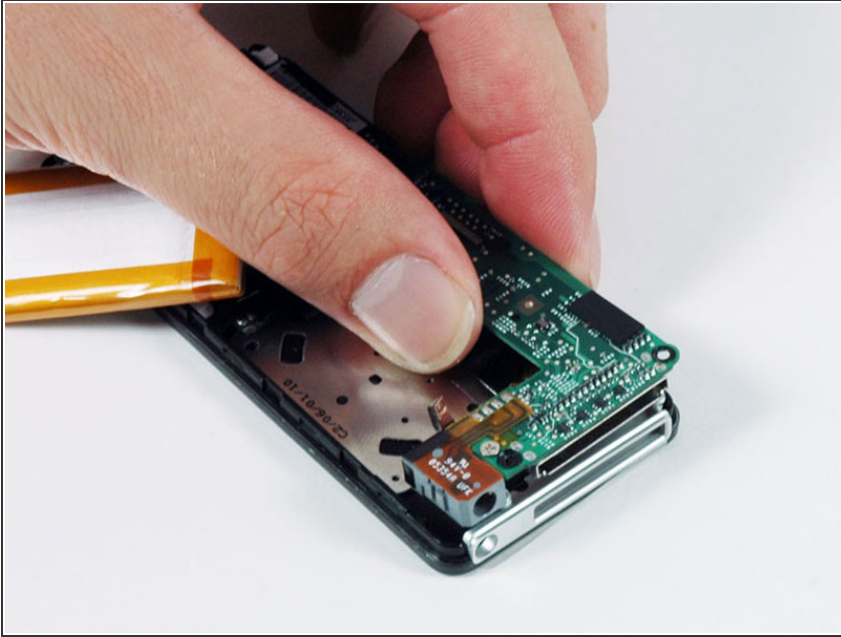
- Peel up the ground strap connecting the battery to the logic board.

Step 10



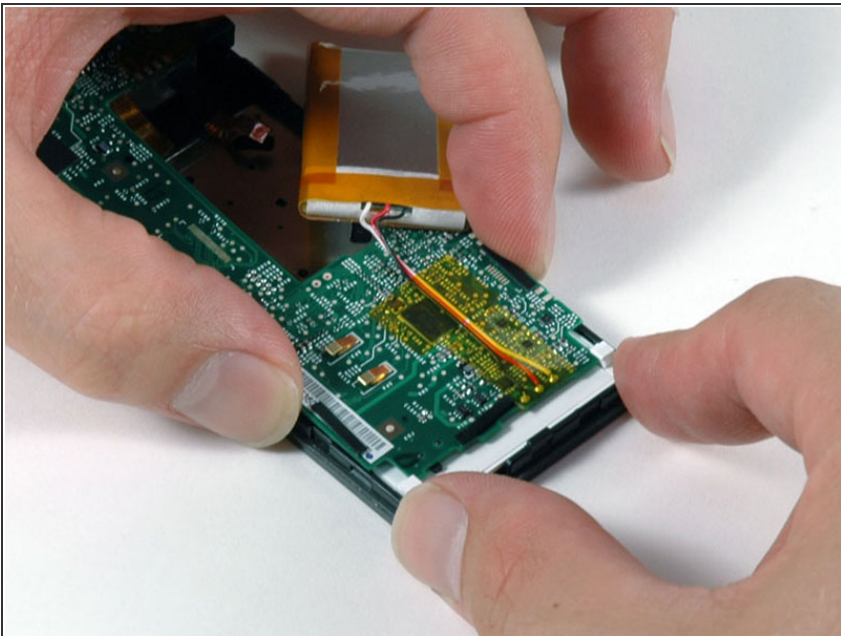
- Insert the flat end of a spudger between the battery and the headphone jack side of the front case to pry the battery up off the adhesive securing it to the front case.
- Rotate the battery out of the iPod and lay it next to the iPod. The battery is still soldered to the logic board by three wires, so don't remove it entirely.

Step 11



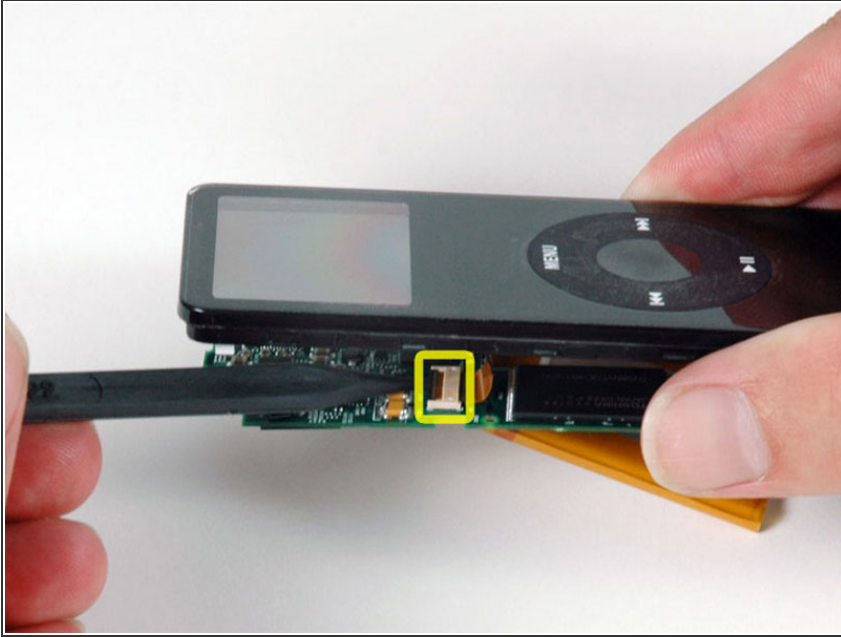
- Gently lift up on the dock connector end of the logic board to ensure the logic board is free.

Step 12



- Grasp the end of the logic board near the battery connector with one hand, and hold onto the rest of the iPod with your other hand.
- ⓘ Make sure the logic board is lifted slightly above the white plastic notch on the battery side of the board. This notch prevents the board from sliding out in the next step.
- Slide the logic board out of its holding brackets on the rear of the display.
- ⓘ The logic board is still connected to the iPod by two ribbon cables.

Step 13



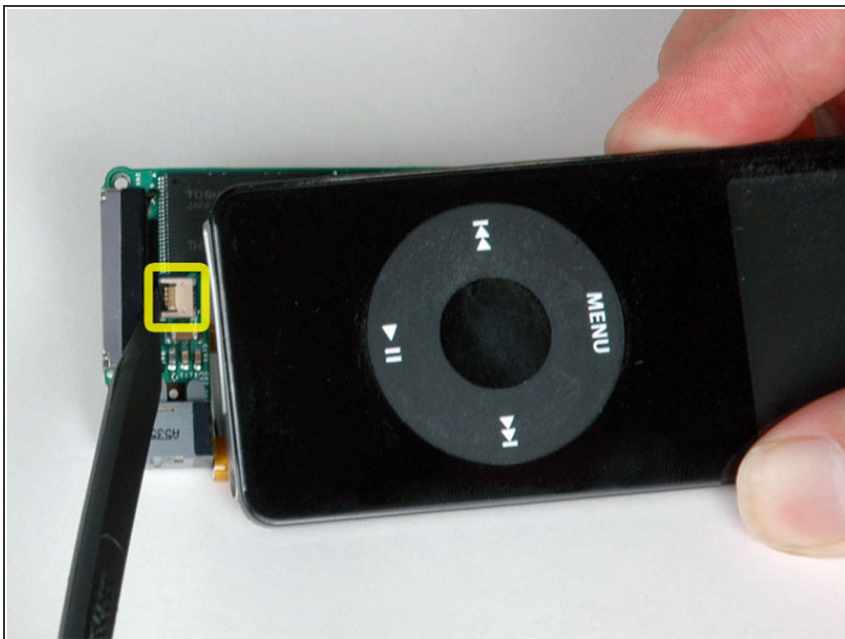
- ❗ Disconnecting the following two ribbon cables may be challenging. To prevent straining the cables or connectors, you can only separate the two halves of the iPod about 1/2 inch during the process.
- Use a spudger to flip up the black plastic tab holding the orange display ribbon in place. The black tab will rotate up 90 degrees, releasing the ribbon cable.

Step 14



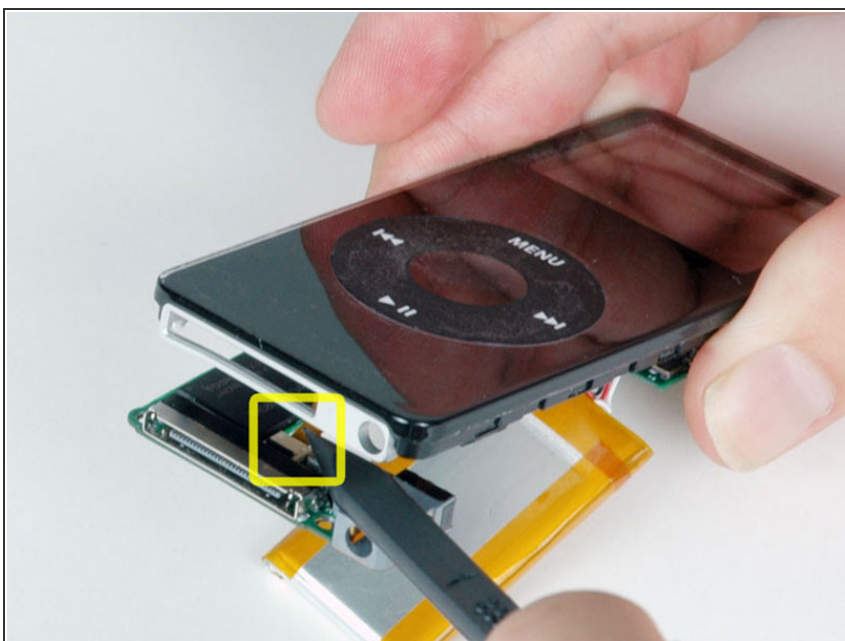
- Use a spudger to slide the display ribbon out of its connector.

Step 15



- Use a spudger to flip up the black plastic tab holding the orange click wheel ribbon in place. The black tab will rotate up 90 degrees, releasing the ribbon cable.

Step 16



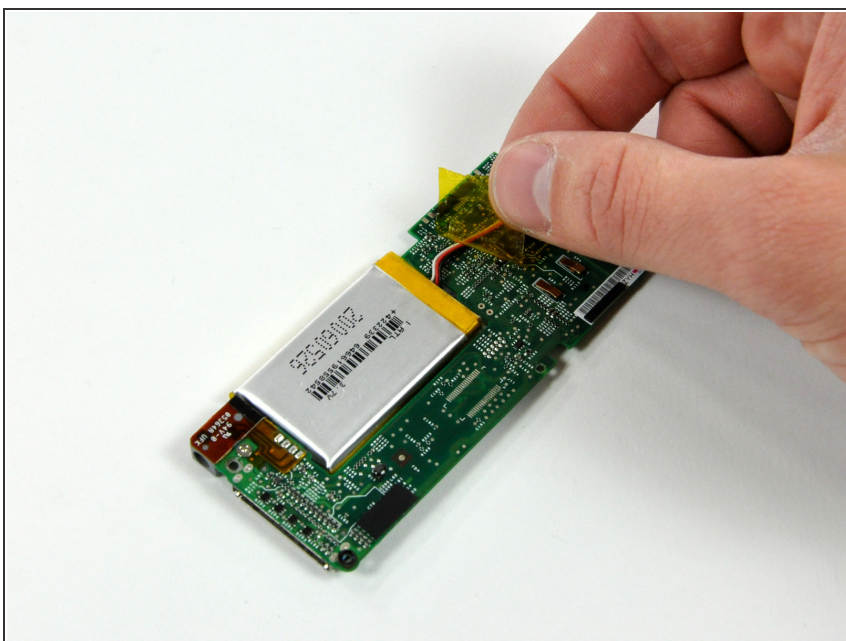
- Use a spudger to slide the click wheel ribbon out of its connector.

Step 17

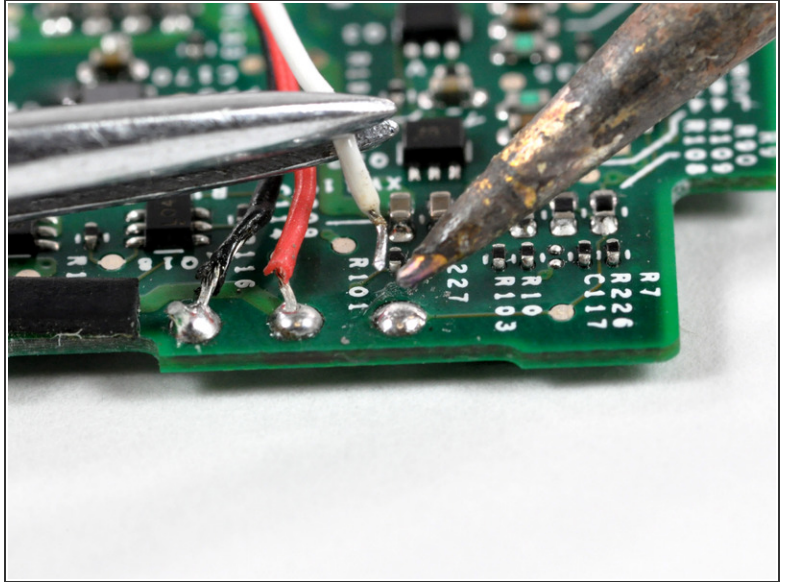


- The logic board and battery are now free from the iPod.

Step 18 — Battery

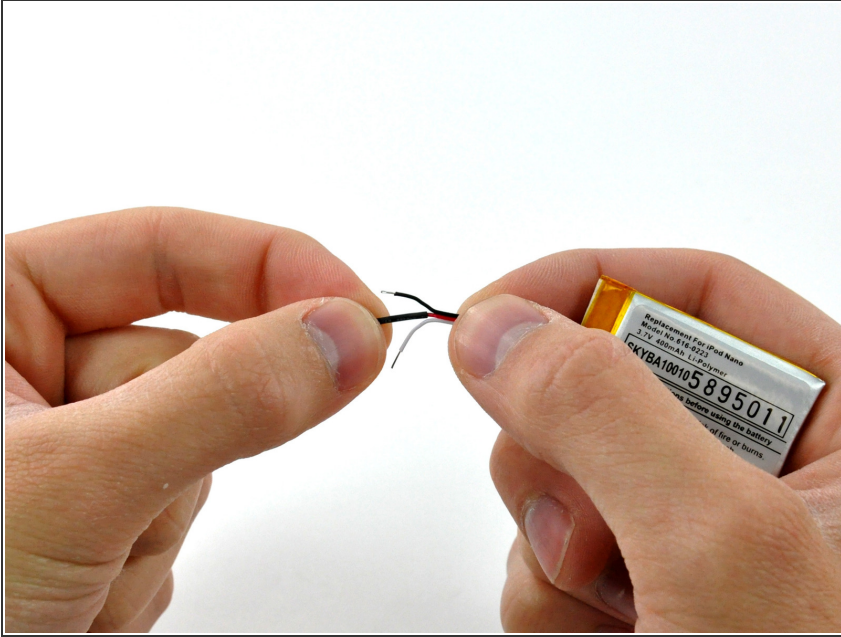


- Peel the orange kapton tape covering the battery leads.



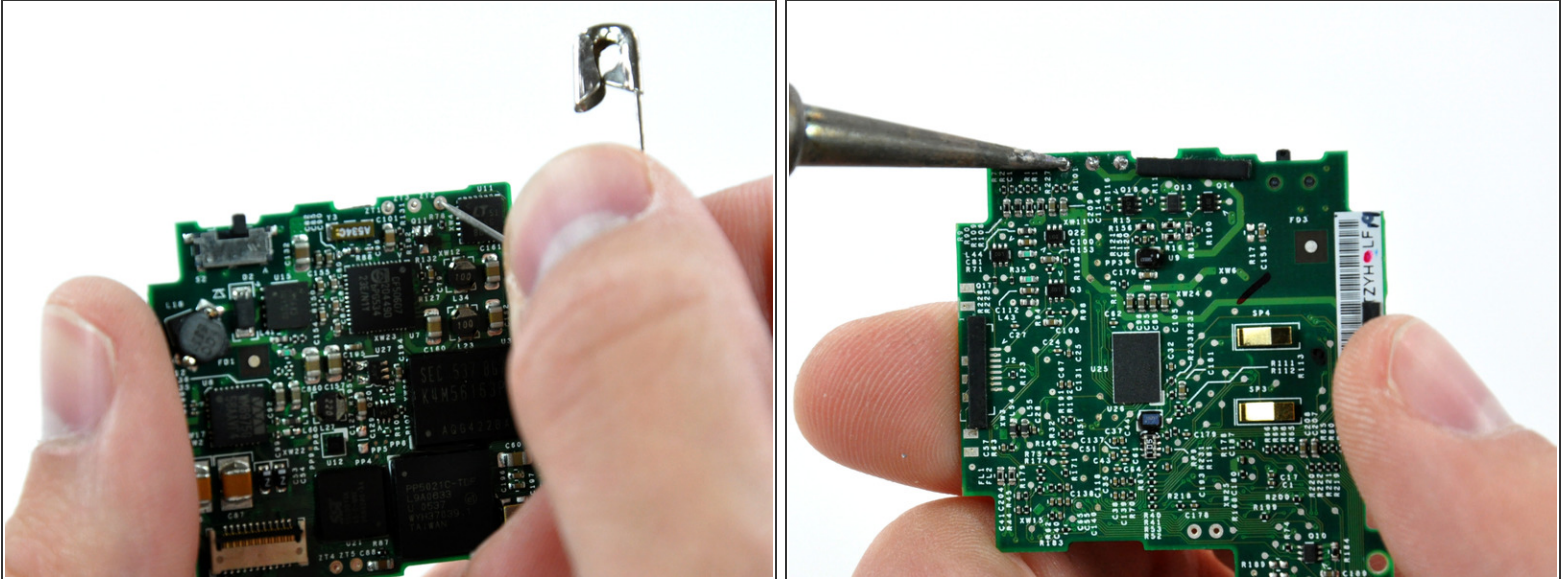
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Step 20



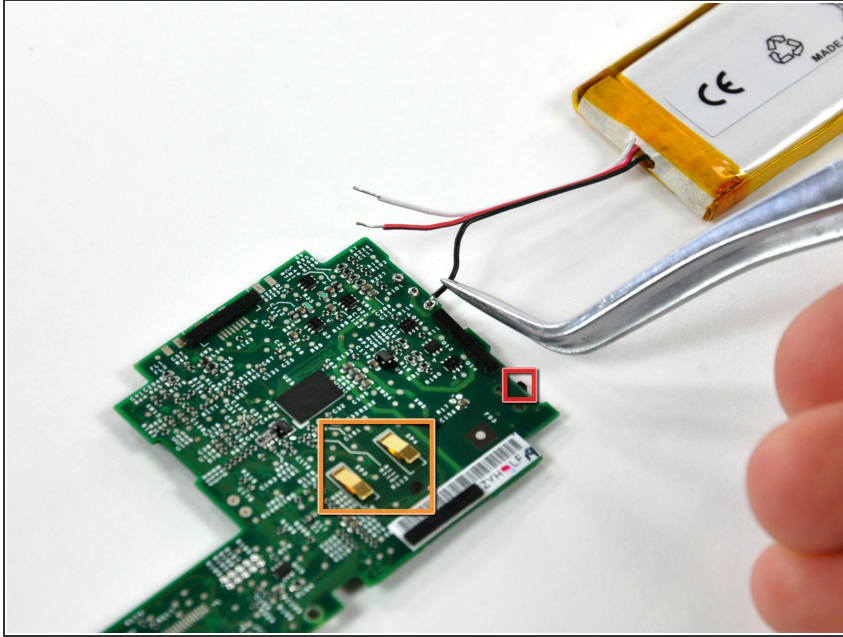
- If present, remove the small piece of shrink tube protecting the new battery's positive lead.

Step 21



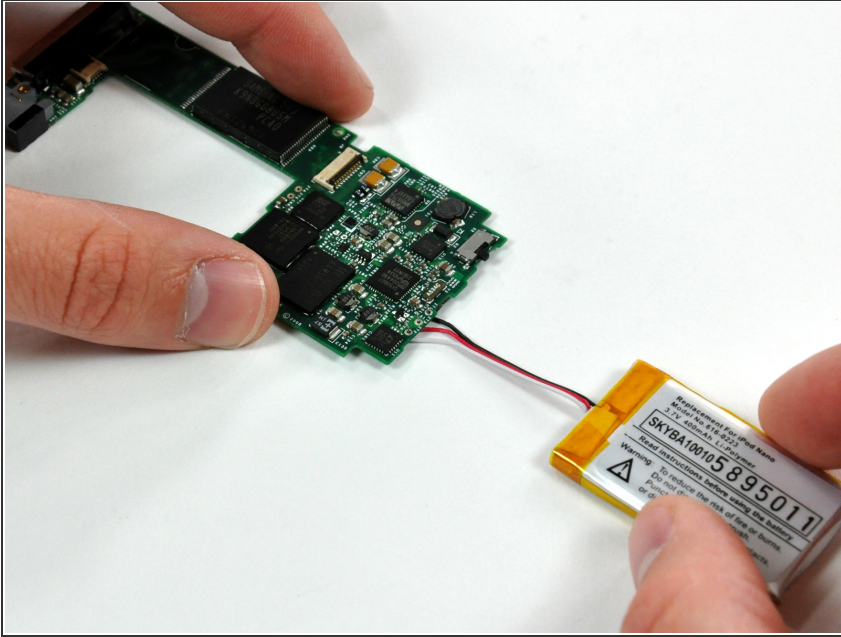
- ⓘ To aid in soldering the new battery, be sure the solder pad holes are clear of solder. This way, you can insert the new battery leads and solder them in place.
- To open the solder holes, open a safety pin and push it against the solder blocking the hole. At the same time, heat the same solder pad from the other side of the logic board. Opening the holes completely will require repeating this procedure several times from alternating sides of the logic board.
- ⚠ These holes are extremely small, so the safety pin will probably be too large to pass all the way through. Do not insert the entire pin through the hole -- only the tip of the pin.
- ⓘ You can also try entering the tip of the pin on the other side of the board to open the solder pad hole.

Step 22



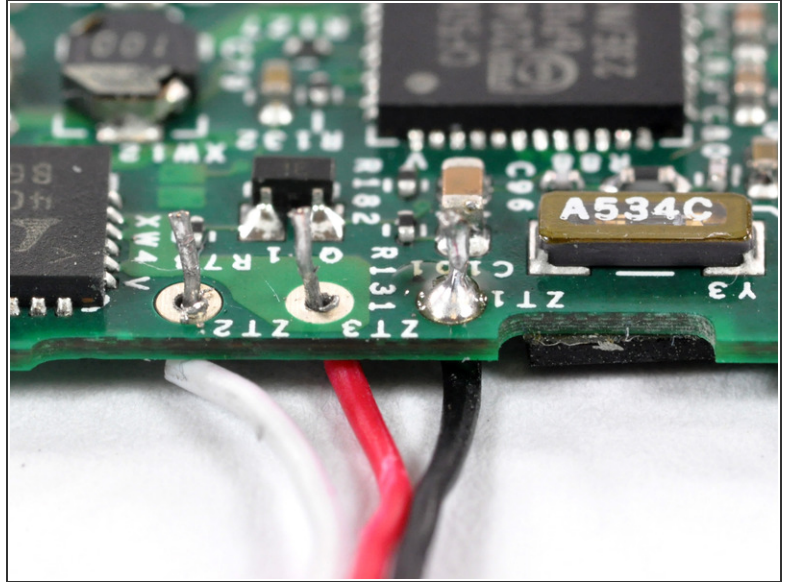
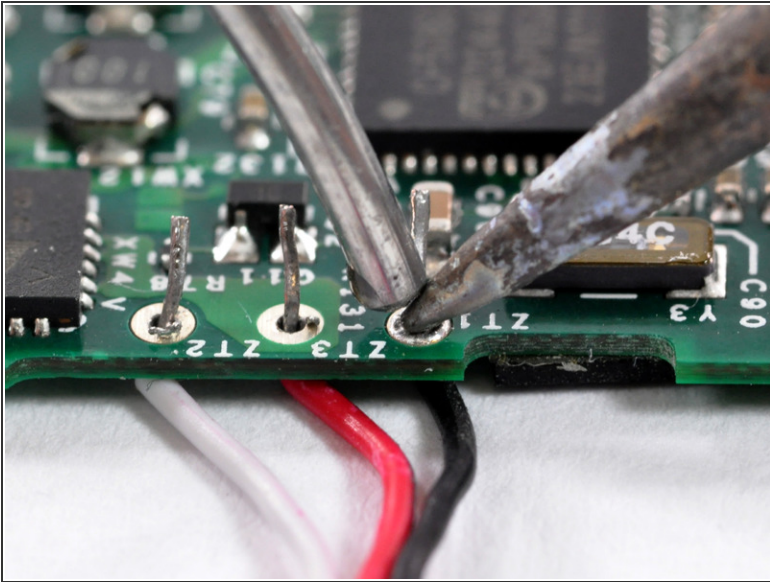
- Place the logic board flat on a table with the gold ground contacts (shown in orange) facing up.
- Using a pair of tweezers, insert the stripped ends of the battery leads into their respective holes.
 - Insert the black lead into the hole nearest the hold switch (shown in red).
 - Insert the red lead into the center hole.
 - Insert the white lead into the hole furthest from the hold switch.
- ⓘ To keep the leads in place, it may be helpful to first bend them 90 degrees, and then insert them into the holes.
- ⓘ To keep the leads in place, it may be helpful to first bend the battery leads into their final shape, then insert the stripped ends into the holes.

Step 23



- Flip the logic board and battery over so the bare ends of the battery leads are facing up.

Step 24

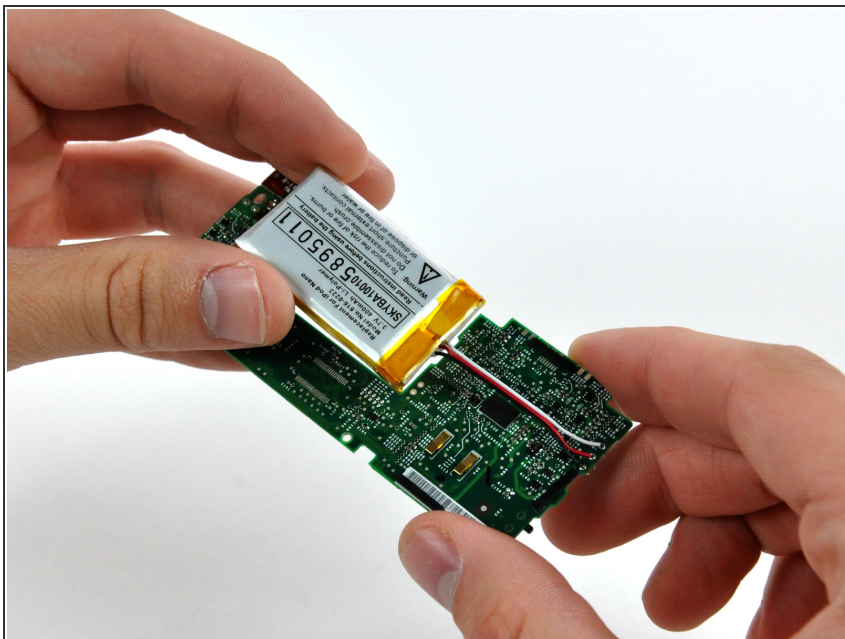


i In this step, you will solder the battery leads to the solder pads on the logic board.

! Excess heat transferred to the logic board while soldering may result in electronic component damage. As a rule of thumb, hold the tip of the soldering iron against the joint just long enough to melt the solder, then quickly remove it.

- Solder the connection by momentarily placing the tip of the soldering iron against the connection, melting solder into the connection, and quickly removing both the solder and the tip of the soldering iron from the connection. The solder should flow around the new battery lead, solidly connecting it to the pad on the logic board.
- Solder the other two battery leads in the same fashion, taking care not to bridge any of the connections together.

Step 25



- Rotate the battery toward the logic board and place it flat in its void, bending the cables as necessary.

To reassemble your device, follow these instructions in reverse order.

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